

CLAIMS

1. A method of removing a biofilm, which comprises at least the following steps, carried out simultaneously or consecutively:

a) a solution comprising an enzyme mixture containing at least one enzyme chosen from the group of proteases, at least one enzyme chosen from the group of esterases and an amylase is prepared;

b) a solution comprising a detergent with an alkaline pH is prepared; and

c) said solutions are applied, by washing or by circulation, to the surface to be treated.

2. The method as claimed in claim 1, which furthermore comprises the following steps, carried out simultaneously or consecutively:

d) a solution comprising an acid capable of dissolving deposits of mineral salts is prepared; and

e) said solution is applied, by washing or by circulation, to the surface to be treated.

3. The method as claimed in either of the preceding claims, wherein the enzyme chosen from the group of proteases is chosen from the group formed by exopeptidases or endopeptidases, such as trypsin.

4. The method as claimed in any one of the preceding claims, wherein the enzyme chosen from the group of esterases is a carboxyl ester hydrolase, such as lipase, a phospholipase and/or a phosphonodiesterase, such as ribonuclease.

5. The method as claimed in any one of the preceding claims, wherein the enzyme mixture furthermore comprises an enzyme chosen from the group formed by osidases or carbohydrases, such as glycosidase and galactosidase.

6. The method as claimed in any one of the preceding claims, wherein the enzyme mixture is pancreatin.

7. The method as claimed in any one of the preceding
5 claims, wherein the detergent is an alkaline solution containing surfactants.

8. The method as claimed in any one of the preceding claims, wherein the detergent is an alkaline solution
10 containing surfactants and a quaternary ammonium.

9. The method as claimed in any one of the preceding claims, wherein the detergent solution furthermore contains a disinfectant such as a sodium hypochlorite
15 or potassium hypochlorite solution.

10. The method as claimed in claim 2, wherein, in the acid for removing the deposits of mineral salts, the acid is chosen from the group formed by citric acid,
20 peractetic acid, glycolic acid and hydroxyacetic acid.

11. A kit intended for removing a biofilm, which comprises at least one solution of an enzyme mixture containing at least one enzyme chosen from the group of
25 proteases, at least one enzyme chosen from the group of esterases and an amylase, and which comprises at least one solution of a detergent with an alkaline pH.

12. The kit as claimed in claim 11, wherein the enzyme
30 chosen from the group of proteases is chosen from the group formed by exopeptidases or endopeptidases, such as trypsin.

13. The kit as claimed in either of claims 11 and 12,
35 wherein the enzyme chosen from the group of esterases is a carboxyl ester hydrolase, such as lipase, a phospholipase and/or a phosphonodiesterase, such as ribonuclease.

14. The kit as claimed in any one of claims 11 to 13, wherein the enzyme mixture furthermore comprises an enzyme chosen from the group formed by osidases or carbohydrases, such as glycosidase and galactosidase.

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15. The kit as claimed in any one of claims 11 to 14, wherein the enzyme mixture is pancreatin.

16. The kit as claimed in any one of claims 11 to 15, wherein the detergent is an alkaline solution containing surfactants.

17. The kit as claimed any one of claims 11 to 15, wherein the detergent is an alkaline solution containing surfactants and a quaternary ammonium.

18. The kit as claimed in any one of claims 11 to 17, which furthermore includes a solution of a disinfectant such as a sodium hypochlorite or potassium hypochlorite solution.

19. The kit as claimed in any one of claims 11 to 18, which furthermore includes a solution of an acid capable of dissolving deposits of mineral salts such as calcium carbonate.

20. The kit as claimed in claim 19, wherein the acid is chosen from the group formed by citric acid, peractetic acid, glycolic acid and hydroxyacetic acid.

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21. A composition intended for removing a biofilm, which comprises an enzyme mixture containing at least one enzyme chosen from the group of proteases, at least one enzyme chosen from the group of esterases and an amylase, and a detergent with an alkaline pH.

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22. The composition as claimed in claim 21, wherein the enzyme mixture is pancreatin.